

**SMA PIN Diode Switch SP4T From 500 MHz to 18 GHz Rated at +20 dBm**

FMSW6212 is a SP4T Absorptive Switch designed to operate over the 0.5 GHz to 18.0 GHz Frequency Range. The switch is designed to maintain low insertion loss, high isolation, and fast switching speed.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	0.5		18	GHz
Impedance		50		Ohms
VSWR			2:1	
Insertion Loss			3.8	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Positive Operating Voltage		5		V
Negative Operating Voltage		-15		V
Current @ 5 V		160		mA
Current @ -15 V		50		mA
Operating Temperature	-40		+85	deg C

**Mechanical Specifications**

Length	1.5 in [38.1 mm]
Width	1.5 in [38.1 mm]
Height	0.6 in [15.24 mm]
Finish	Gray

**Configuration**

Package Type	Connectorized Module
Design	SP4T, Absorptive
RF Connector	SMA Female
Control Connector	Pin

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +85 deg C
Storage Range	-55 to +125 deg C

ESD Sensitivity	ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.
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**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

REACH Compliant

12/17/2015



**Features:**

- SP4T Absorptive Switch
- 0.5 GHz to 18.0 GHz
- Insertion Loss 3.8 dB max
- Isolation 55 dB min
- Power Input 20 dBm CW max
- Switching Speed 100 nsec max

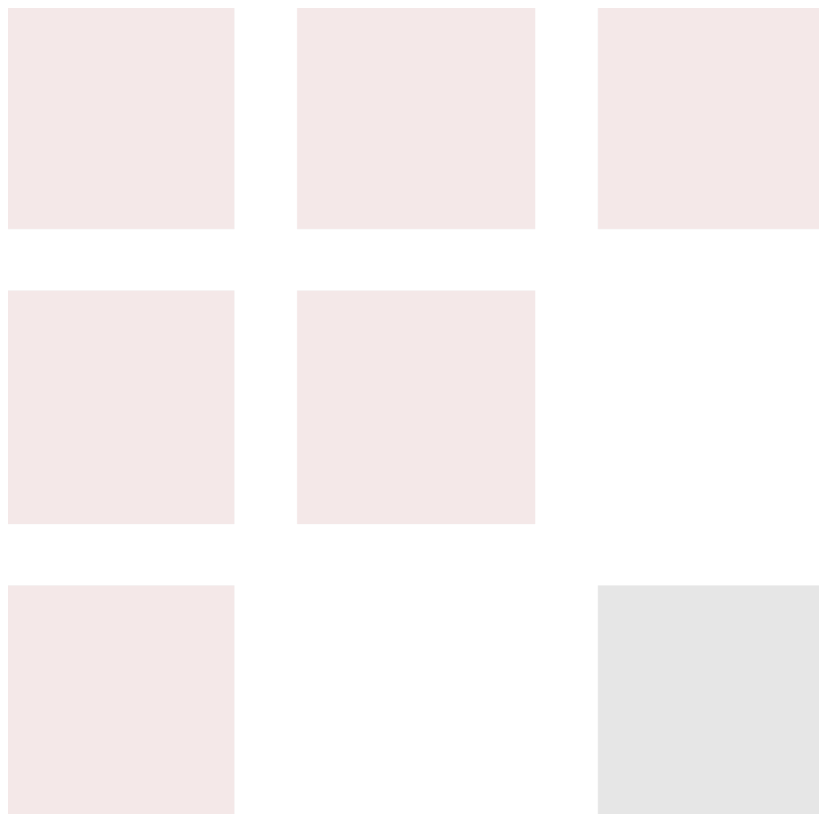
**Applications:**

- Test & Measurement
- Military Communication
- Commercial Communication

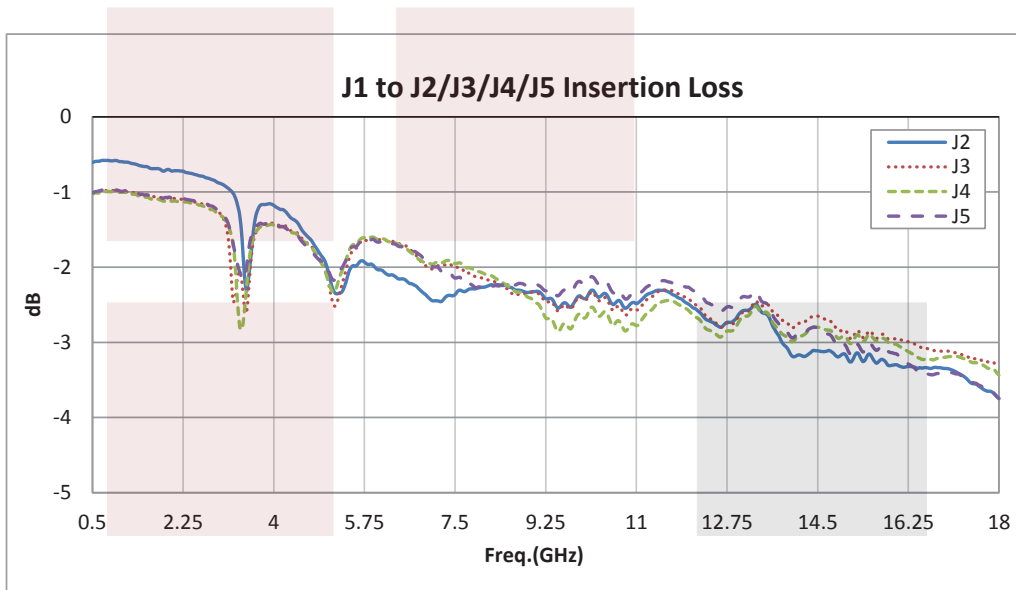
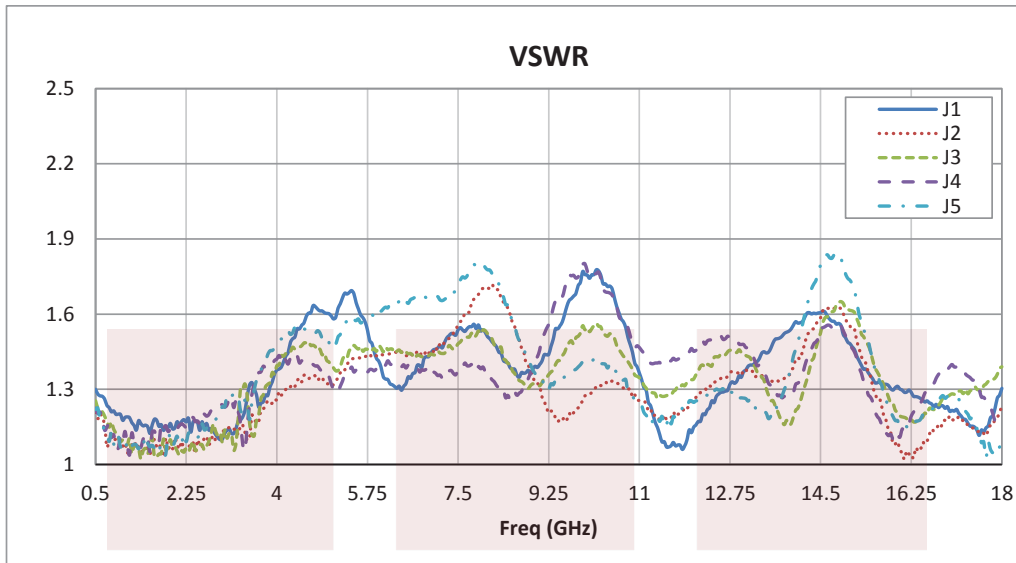
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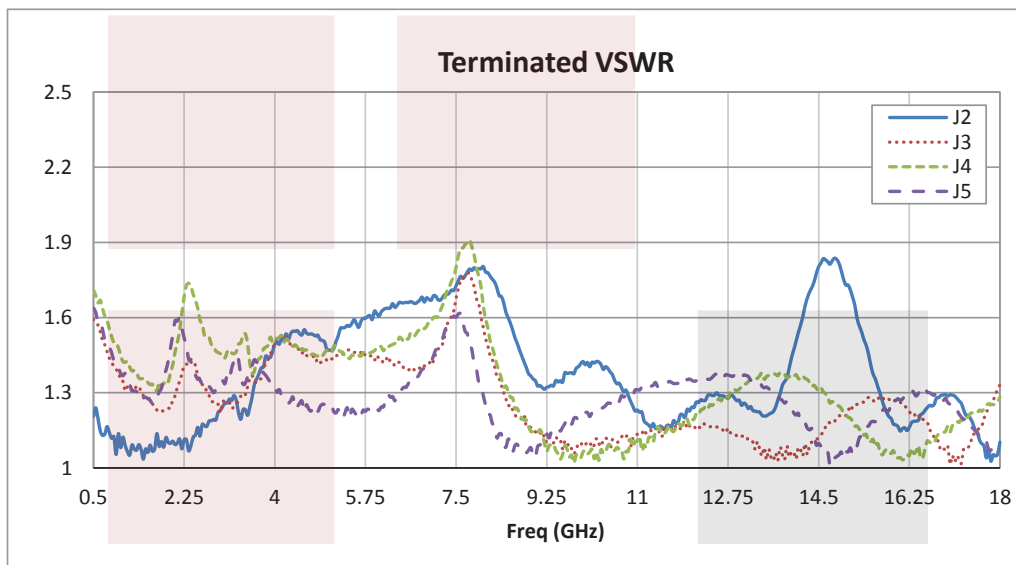
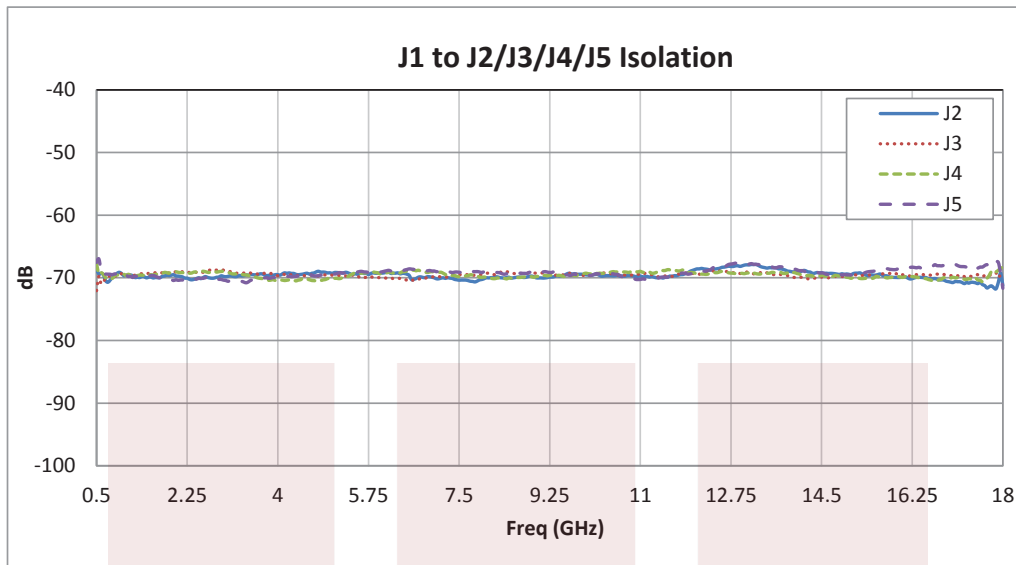
**Plotted and Other Data**

Notes:



**Typical Performance Data**



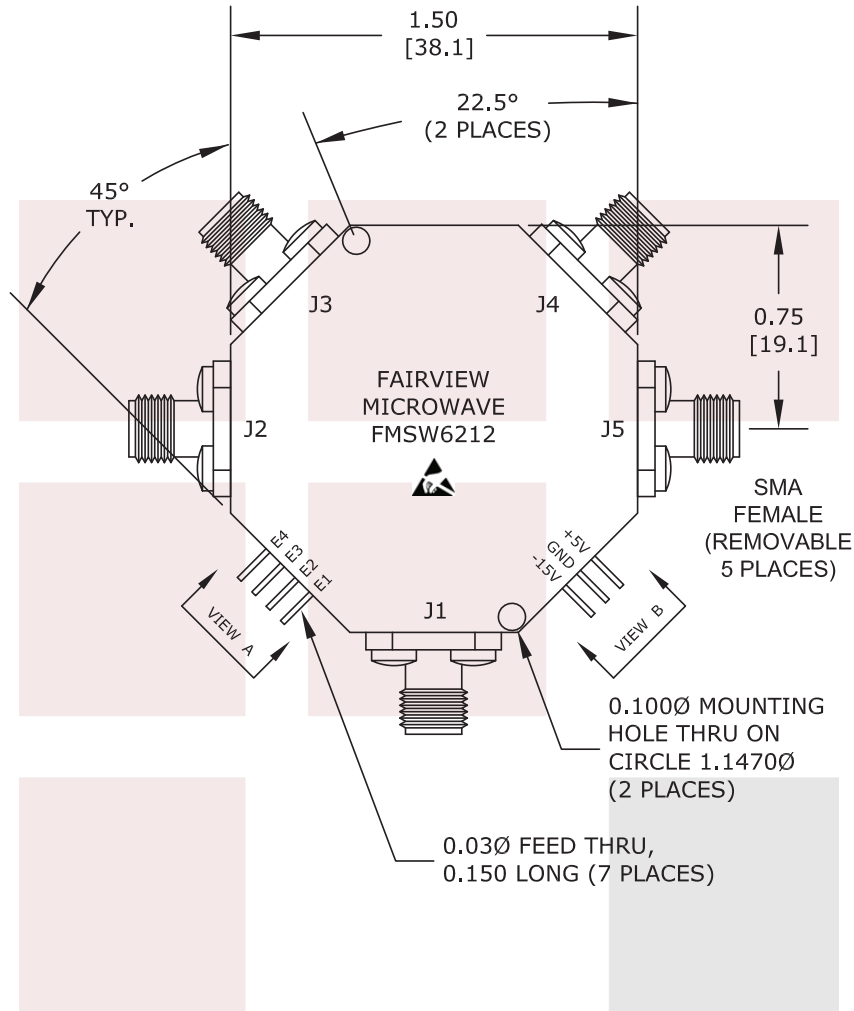


SMA PIN Diode Switch SP4T From 500 MHz to 18 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA PIN Diode Switch SP4T From 500 MHz to 18 GHz Rated at +20 dBm FMSW6212](http://www.fairviewmicrowave.com/sma-pin-diode-switch-sp4t-500-mhz-18-ghz-rated-20-dbm-fmsw6212-p.aspx)

URL: <http://www.fairviewmicrowave.com/sma-pin-diode-switch-sp4t-500-mhz-18-ghz-rated-20-dbm-fmsw6212-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



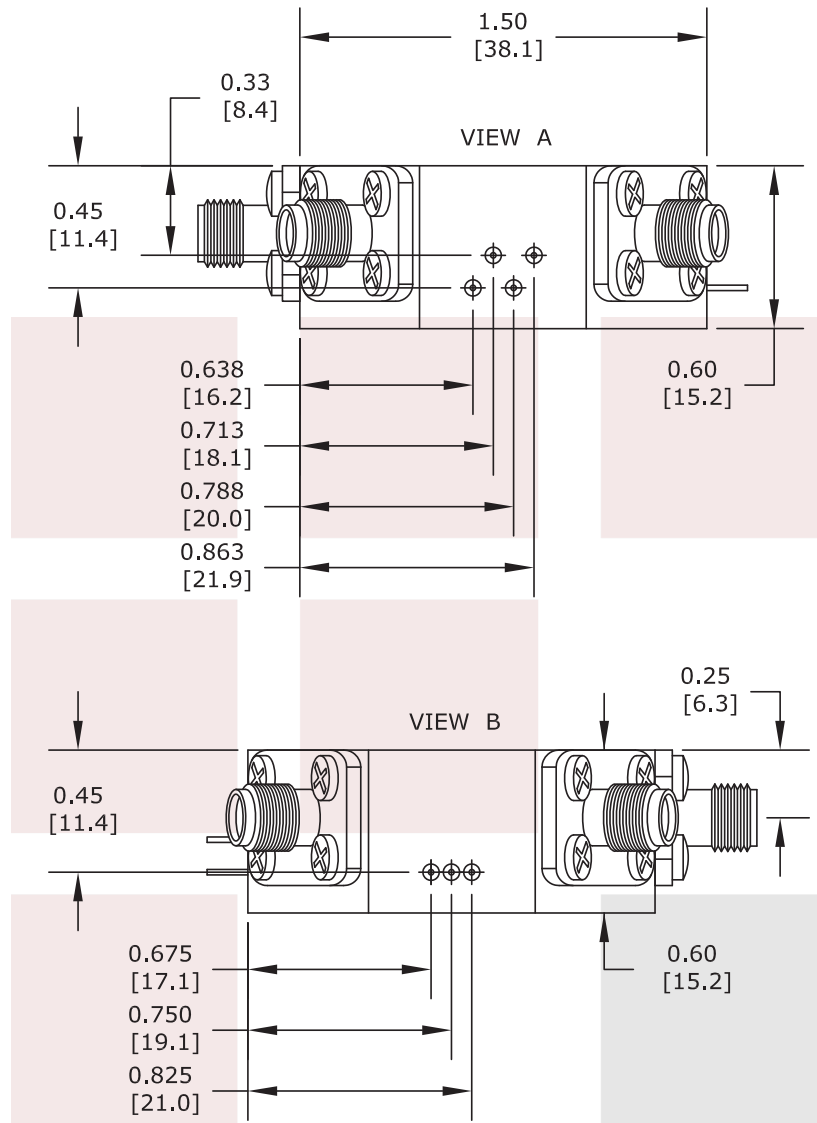
NOTE:  
0=Isolation  
1=Low Loss

TTL LOGIC TABLE				
E1	E2	E3	E4	FUNCTION
1	0	0	0	J1-J2 LOW LOSS
0	1	0	0	J1-J3 LOW LOSS
0	0	1	0	J1-J4 LOW LOSS
0	0	0	1	J1-J5 LOW LOSS

ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

\* THESE DIMENSIONS AND TOLERANCES  
SUPERSEDE NOTE #1 ON TITLE BLOCK.

<b>FAIRVIEW MICROWAVE INC.</b>		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].	
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM			
TITLE SMA PIN Diode Switch SP4T From 500 MHz to 18 GHz Rated at +20 dBm		DWG NO <b>FMSW6212</b>	CAGE CODE <b>3FKR5</b>
CAD FILE	112015	SHEET	SCALE N/A SIZE A 2233



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